Work Order ID 64772

Friday, December 17, 2010 7:48:38 AM

Item ID: D2438 **Accept** **Setup Start**

Revision ID:

Item Name: Clamp **Stop**

Start Date: 12/16/2010 **Start Qty:** 100.00 **Cust Item ID:**

Required Date: 1/19/2011 **Req'd Qty:** 100.00 **Customer:**

Reference:

Approvals: **Process Plan:** _____ **Date:** 12-22-10 **Tooling:** _____ **Date:** _____ **Run Start**

QC: _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____ **Stop**

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	**Revision Nbr**								
D2438	Rev C								
100	PURCHASING	0.00							
Purchasing	**Memo**	0.00							
Purchasing	Issue P/O: 13782 ☐Laser cut as per Dwg D2438☐Material release note is required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
Packaging	**Memo**	0.00							
Packaging	Ensure Material Release Note is attached								
120	QC6- Inspect dimensions to drawing	0.00							
QC	**Memo**	0.00							
Quality Control	(6.786" center to center)								

CL 10/12/21 100

12/04/19 100

8/16/21

counted 400

DSP015

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	**STEP**	**PROCEDURE CHANGE**	**By**	**Date**	**Qty**	**Approval** Chief Eng / Prod Mgr	**Approval** QC Inspector

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	**STEP**	**Description of NC** Section A	**Corrective Action** Section B			**Verification** Section C	**Approval** Chief Eng	**Approval** QC Inspector
			Initial Chief Eng	**Action Description** Chief Eng	**Sign & Date**			

NOTE: Date & initial all entries

Work Order ID 64772

Friday, December 17, 2010 7:48:38 AM

Item ID: D2438 **Accept** **Setup Start**

Revision ID: **Stop**

Item Name: Clamp

Start Date: 12/16/2010 **Start Qty:** 100.00 **Cust Item ID:**

Required Date: 1/19/2011 **Req'd Qty:** 100.00 **Customer:**

Reference:

Run Start

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____ **Stop**

QC: _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Small Fab	0.00							
Small Fab									
Small Fab	**Memo** Tumble & Deburr any rough edges	0.00 N/A							
140	QC5- Inspect part completeness to step on W/O	0.00 N/A							
QC									
Quality Control	**Memo**	0.00							
150	Identify as per dwg & Stock Location: Y56	0.00							
Packaging									
Packaging	**Memo**	0.00							

11/1/21 1002

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	**STEP**	**PROCEDURE CHANGE**	**By**	**Date**	**Qty**	**Approval** Chief Eng / Prod Mgr	**Approval** QC Inspector

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	**STEP**	**Description of NC** Section A	**Corrective Action** Section B			**Verification** Section C	**Approval** Chief Eng	**Approval** QC Inspector
			Initial Chief Eng	**Action Description** Chief Eng	**Sign & Date**			

NOTE: Date & initial all entries

Work Order ID 64772

Friday, December 17, 2010 7:48:38 AM

Item ID: D2438 **Accept** **Setup Start**

Revision ID: **Stop**

Item Name: Clamp

Start Date: 12/16/2010 **Start Qty:** 100.00 **Cust Item ID:**

Required Date: 1/19/2011 **Req'd Qty:** 100.00 **Customer:**

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____ **Run Start**

QC: _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____ **Stop**

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160	QC21- Final Inspection - Work Order Release	0.00				CK 11/01/24			
QC	**Memo**	0.00							
Quality Control									

MF
11-01-21

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	**STEP**	**PROCEDURE CHANGE**	**By**	**Date**	**Qty**	**Approval** Chief Eng / Prod Mgr	**Approval** QC Inspector

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	**STEP**	**Description of NC** Section A	**Corrective Action** Section B			**Verification** Section C	**Approval** Chief Eng	**Approval** QC Inspector
			Initial Chief Eng	**Action Description** Chief Eng	**Sign & Date**			

NOTE: Date & initial all entries

Picklist Print

Friday, December 17, 2010 7:48:41 AM

Work Order ID: 64772

Parent Item: D2438

Parent Item Name: Clamp

Start Date: 12/16/2010 **Required Date:** 1/19/2011

Start Qty: 100.00 **Required Qty:** 100.00

Comments: IPP: E□05.06.28□Bending removed□KJ/JLM□

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2438B Clamp		Purchased	No			110	Each	100.0000	1	100			

Location	Loc Qty	Loc Code
ST	100	
63999	100	

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	**STEP**	**PROCEDURE CHANGE**	**By**	**Date**	**Qty**	**Approval** Chief Eng / Prod Mgr	**Approval** QC Inspector

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	**STEP**	**Description of NC** Section A	**Corrective Action** Section B			**Verification** Section C	**Approval** Chief Eng	**Approval** QC Inspector
			Initial Chief Eng	**Action Description** Chief Eng	**Sign & Date**			

NOTE: Date & initial all entries

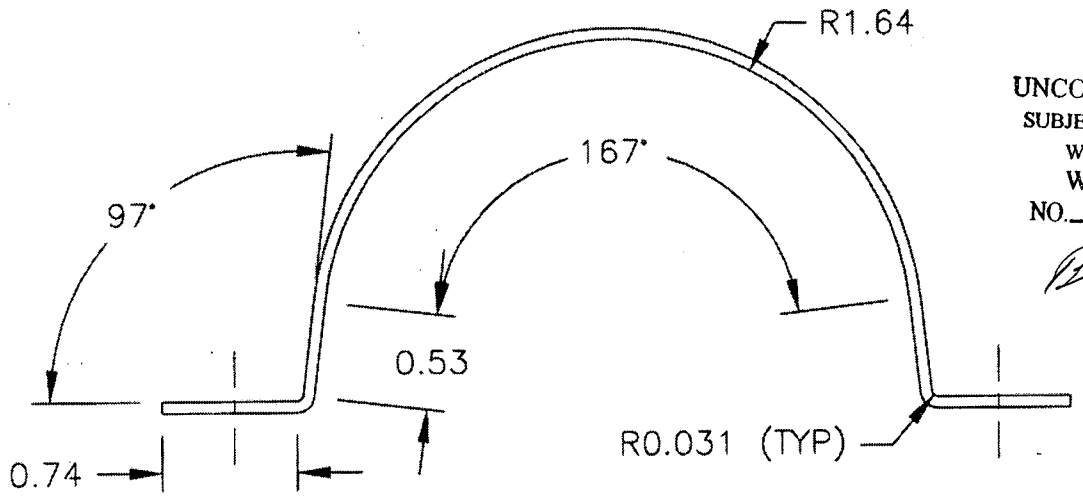
DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
KE	KE		
CHECKED	APPROVED	DRAWING NO.	REV. C
		D2438	SHEET 1 OF 1
DATE		TITLE	SCALE
98.05.12		CLAMP	1:1

A	96.01.24	NEW ISSUE
B	96.05.13	CHANGE LENGTH
C	98.05.12	R1.64 WAS R1.438, CHANGE GEOMETRY

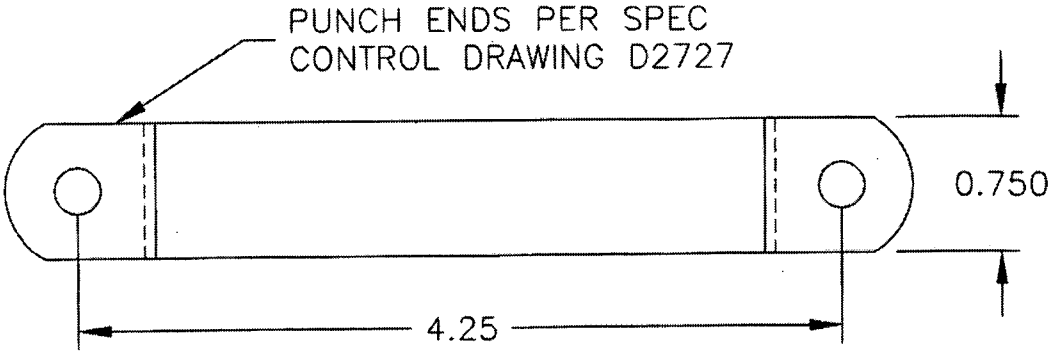
COPY ISSUED

RELEASED
98.06.17 KE

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 44772
B/10-12-17



(1)



FLAT LENGTH: 7.586 END–END
6.786 HOLE–HOLE

MATERIAL: AISI 304/316 SS 0.063 THICK
MINIMUM REQUIREMENT IS ANNEALED CONDITION

00.06.06
00.06.07

Copyright 1996 by DART AEROSPACE LTD

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	**STEP**	**PROCEDURE CHANGE**	**By**	**Date**	**Qty**	**Approval** Chief Eng / Prod Mgr	**Approval** QC Inspector

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	**STEP**	**Description of NC** Section A	**Corrective Action** Section B			**Verification** Section C	**Approval** Chief Eng	**Approval** QC Inspector
			Initial Chief Eng	**Action Description** Chief Eng	**Sign & Date**			

NOTE: Date & initial all entries

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
2B FINISH

B SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

PART NUMBER: M304S|TT|GA
GA

WHERE "TT" = GAUGE THICKNESS

EG. 16 GAUGE SS SHEET = M304S16GA

B GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176

REFERENCE ONLY

RELEASED
09/08/23 MB

REV.	DESCRIPTION	BY	DATE
B	REFORMAT DWG, ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A	CP	09.06.01
A	NEW ISSUE	DS	01.09.24

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. M304S	REV. B
MFG. APPR.			SHEET 1 OF 1
APPROVED		TITLE 304/316 SS SHEET	SCALE NTS
DE APPR.			
DATE 09.06.01			

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DART aerospace
Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO13182

Purchase Order Date 12/21/10
PO Print Date 12/21/10

Order From : VC-GFI001

GFI
180 AVENUE LABROSSE
POINTE CLAIRE, QC H9R 1A1
CA

Contact Name		**Buyer**	Chantal Lavoie
Vendor Phone	514 630 4877	**Requisition Nbr**	
Vendor Fax	514 630 4849	**Tax Resale Nbr**	10127-2607
Vendor Account Nbr		**Terms**	Net 30
		Currency	CAD
		FOB	Destination-Collect

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
CL 10/12/22
e-mail Pedro

Line Nbr	Reference / Revision ID / Vendor Part Number	Description / Mfg ID	Req Date / Taxable	Req Qty / Unit of Measure	Ship Method	Unit Price	Extended Price
1	D2438B	Clamp	1/14/11 Yes	100.00 Each	Purolator ground	$10.0000	$1,000.00

Special Inst: AS PER DWG D2438 REV. C
B64772

PO Total: **$1,000.00**

CERTIFICATE OF CONFORMITY
REQ'D UPON DELIVERY

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

CL

No substitution or deviation without consent.
Certificate of Conformity or Material Certification required when applicable

Change Nbr: 1 **Change Date:** 12/21/10

180 AVENUE LABROSSE
POINTE-CLAIRE, QC, CANADA H9R 1A1
TÉL.:(514) 630-4877 - FAX:(514) 630-4849

ISO 9001:2000 CERTIFICATION Intertek

GFI est une division de Thomas & Betts Fabrication Inc. / GFI is a division of Thomas & Betts Manufacturing Inc.

BON DE LIVRAISON / *SHIPPING MEMO*

DATE DE LIVRAISON / *SHIPPING DATE* JR - *DY*	MO - *MO*	AN - *YR*	N° DE BON DE LIVRAISON *SHIPPING MEMO NO*	PAGE
17	01	11	0453967	1/1

VENDU À / *SOLD TO*

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

EXPÉDIÉ À / *SHIP TO*

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

CODE DE CLIENT *CUSTOMER CODE*		N° DE CONTRAT *JOB NO*	VOTRE N° DE COMMANDE *YOUR PURCHASE ORDER NO*	EXPÉDIÉ PAR *SHIP VIA*
DART	GFI-0299	0225172	PO13182	

QUANTITÉ *QUANTITY*	N° DE PIÈCE *PART NO*	DESCRIPTION
100	D2438B	CLAMP CUT&FORMED CERTIFICATE OF CONFORMANCE REQ

MFG. JOB# J0225172-001 QTY 100

GFI 8 CONTRÔLE QUALITÉ ISO 9001: 2008

EXPÉDITEUR *SHIPPER*

N° DE BON DE LIVRAISON *SHIPPING MEMO NO*

REÇU PAR / *RECEIVED BY*

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION.
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.

CERTIFICATE OF COMPLIANCE
CERTIFICAT DE CONFORMITE

Membre de / A Member of Thomas&Betts

180 LABROSSE AVENUE
POINTE CLAIRE, QC
H9R 1A1

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7

CERTIFICATE NO. **28** OUR JOB NO **J0225172** SHIPPING MEMO **0453967**

ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME	DWG ISSUE
--	100 PCS	PO13182	D2438B	C	CLAMP	C

MATERIAL	SUPPLIED BY	MAT. REL. NO.
.062 THK S.S.T 304	TW METALS / ALLEGHENY LUDLUM	976601

	PROCESS	PROCESSOR	RELEASE NOTE #
1	FIRST ARTICLE INSPECTION REPORT ON FILE	GFI	N/A
2	REF. GFI MANUFACTURING JOB NUMBER J0225172-001 (100 PCS)		
3			
4			
5			
6			
7			
8			
9			

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE **18 JANUARY 2011**

G.F.I. Q.C. REP.

GFI CONTRÔLE QUALITÉ ISO 9001:2008

DP12-001 REV 0 Bombardier Certificate of Compliance
TW Metals District Procedure

CERTIFICATE OF COMPLIANCE

FRAUD AND FALSIFICATION STATEMENT
The recording of false, fictitious, or fraudulent statements or entries on this document may be punished as a felony under federal statutes including federal law Title 18 chapter 47

CERTIFICATE OF COMPLIANCE
This certificate of compliance certifies that the material supplied on the purchase order number below complies in all respects with the material description and procurement specifications

MERCURY FREE STATEMENT
We certify that mercury, radium, or alpha bearing instruments and / or equipment which might cause contamination have not been used in the manufacture, fabrication, assembly or testing of any material supplied by TW Metals Inc. Switches, glass thermometers, standard cell and other items containing the above elements may be used, but they will be located so as not to constitute a contamination hazard

CUSTOMER NAME GFI

PURCHASE ORDER No 00775605

ITEM No 0001 SHIPPER INVOICE No 03269420

MATERIAL 304-S/S Sheet SPECIFICATON ASTM A240 ← S ulalzl

MANUFACTURING MILL ATI Allegheny Ludlum

SIZE .0625 +/- .004" HEAT / LOT No 976601-

PART No TS0634812044 QUANTITY 1EA

TEST DEPARTMENT CLERK Amy Davis

AUTHORITY

Joe Schab
Director of Quality Assurance

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NOTICE OF SHIPMENT/
PACKING LIST

ATI Allegheny Ludlum
Allegheny Technologies

CERTIFICATE OF TEST

AL 6168-3 908

CUST ORD NO & DATE		CUST. CODE	ACCEPTING MILL	SHIPPER NO	PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED
M49228512	03/30/10	974093	VANDERGRIFT, PA.	456967	13020102060000	30-030-692	05/24/10

FORMS DISTRIBUTION: SOLD TO — 1 | SHIP TO — | SPEC — |

REPEAT ORDER	DO RATE	PRI-ORITY	GOVT CONTRACT	MATL	SHIPPING LOCATION		INVOICE
95434-1	38			1121	VANDERGRIFT	PA	665812

SOLD TO
TW METALS INC
PO BOX 644
EXTON PA 19341

SHIP TO
SPECIALTY METALS PROCESSING
837 SEASONS ROAD
STOW OH 44224

PRIME SEC.
DSO DSO
513

GRADE AND SPECIFICATIONS
ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (AMS 5513J) (ASTM-A-666-03)
(ASME-SA-240-07) (ASTM-A-240-09C) (CP49-7.4.2-005 REV 4) (1/07/09 EXCEPT TO CP49-7.4.2-005)

CARRIER - P AND B TRANSPORTATION

ITEM	PCS	DIMENSIONS W/G/L	HEAT #	COIL #	TEST #	GROSS	TARE	NET	THEO	TAG #/ CD	SKID #
001B	1	48./.0625/949.	976601	04200N039A	8770863	9820	50	9770		707401	
	1	48./.0625/914.	976601	04200N039B	8770863	9390	50	9340		707400	
C CUST IDENTITY 08280											
	2	SKIDS				19210	100	19110			

DIST: COPY ACK TO "SOLD TO" ADDRESS, ATTN: ROSEMARY SMITH

TYPE	HEAT/TEST	--C---	--MN--	--P---	--S---	--SI--	--CR--	--NI--	--MO--	--CU--	--N---
HEAT	976601	.04	.92	.033	.0003	.43	18.40	8.06	.30	.44	.08
TEST LOCATION		MI	MI	MI	MI	MI	MI	MI	MI	MI	MI

ITEM	TEST NO	YIELD PSI *	TENSILE PSI	% ELONG IN 2"	% R/A	HARDNESS	BEND	CORROSION A 262 PR E	GRAIN SIZE	HARDENABILITY
001B	8770863				NR	85.HRBW	T PASS	PASS	NR	NR
TEST LOCATION		T 46400.	95000.	56.		86.HRBW				
		TC	TC	TC		TC	TC	TC		

* Y.S. BY 0.2% OFFSET METHOD

ITEM	TEST NO	MELT SOURCE
001B	8770863	1.

NR = DATA NOT REQUIRED
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY
PAGE 01 - CONTINUED ON PAGE 02

TW METALS
TEST REPORTS
JUN 20 2010
ACCEPTED BY

05/24/10 09:09:56

CONSIGNEE - Please Note—This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-6577. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

WARNING
Les fiches d'information-sécurité de ce produit ont été fournies a votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention: les traitements entraînant la production de vapeurs, poussieres, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgement.

Tracy McFarland
Director, Corporate Quality Assurance

NOTICE OF SHIPMENT/
PACKING LIST

ATI Allegheny Ludlum
Allegheny Technologies

CERTIFICATE OF TEST

AL 6168-3 908

CUST ORD NO & DATE		CUST CODE	ACCEPTING MILL	SHIPPER NO	PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED
M49228512	03/30/10	974093	VANDERGRIFT, PA.	456967	13020102060000	30-030-692	05/24/10

FORMS DISTRIBUTION: SOLD TO 1 | SHIP TO | | SPEC | |

REPEAT ORDER: 95434-1 | DO RATE: 38 | PRIORITY | GOVT CONTRACT | MATL: 1121 | SHIPPING LOCATION: VANDERGRIFT | PA | INVOICE: 665812

SOLD TO
TW METALS INC
PO BOX 644
EXTON PA 19341

PRIME DSO 513
SEC. DSO

SHIP TO
SPECIALTY METALS PROCESSING
837 SEASONS ROAD
STOW OH 44224

GRADE AND SPECIFICATIONS

CARRIER - P AND B TRANSPORTATION

ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (AMS 5513J) (ASTM-A-666-03) (ASME-SA-240-07) (ASTM-A-240-09C) (CP49-7.4.2-005 REV 4) (1/07/09 EXCEPT TO CP49-7.4.2-005)

ALLEGHENY LUDLUM DOES NOT USE MERCURY IN THE TESTING OR PRODUCTION OF ITS PRODUCTS. TO THE BEST OF ALLEGHENY LUDLUMS KNOWLEDGE, UNDERSTANDING, AND BELIEF, THIS MATERIAL WAS NOT CONTAMINATED BY MERCURY WHILE IT WAS BEING PRODUCED IN OUR FACILITIES.

EQUIPMENT, MATERIALS, TESTING AND SERVICES ARE OF U.S. ORIGIN.

NO WELDS/WELD REPAIRS PERFORMED.

THE NUMERIC CODES SHOWN UNDER MELT SOURCE CAN BE INTERPRETED AS FOLLOWS:
1. - MATERIAL MELTED, ROLLED AND TESTED IN THE UNITED STATES.
2. - FOREIGN MELT; ROLLED AND TESTED IN THE UNITED STATES.

THIS DIN EN 10204:2005 - 3.1 CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROHIBITS THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE AND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ALC QUALITY MANUAL REVISION 18 DATED 08/05/2009. ALC HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001 AND AS9100. TESTING WAS PERFORMED AT ALC NADCAP AND ISO/IEC 17025 APPROVED LABORATORIES LOCATED AT THE NATRONA HEIGHTS, BRACKENRIDGE, LATROBE, AND MIDLAND, PA FACILITIES OR AT A NADCAP AND ISO/IEC 17025 ACCREDITED COMMERCIAL LABORATORY.

DIN EN 10204:2005 - 3.1 CERTIFICATE DOES NOT INDICATE PED APPROVAL FOR THIS MATERIAL.

TW METALS
TEST REPORTS
JUN 20 2010
ACCEPTED BY

PAGE 02 - CONTINUED ON PAGE 03

05/24/10 09:09:56

CONSIGNEE: Please Note—This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

WARNING
Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-6577. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information

Les fiches d'information--sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgement.

Tracy McFarland
Director, Corporate Quality Assurance

NOTICE OF SHIPMENT/
PACKING LIST

ATI Allegheny Ludlum
Allegheny Technologies

CERTIFICATE OF TEST

AL 6168-3 908

CUST ORD NO & DATE		CUST CODE	ACCEPTING MILL	SHIPPER NO.	PRODUCT CODE	MILL ORDER NUMBER	DATE SHIPPED
M49228512	03/30/10	974093	VANDERGRIFT, PA.	456967	13020102060000	30-030-692	05/24/10

FORMS DISTRIBUTION: SOLD TO — 1 | SHIP TO — | SPEC — |

REPEAT ORDER	DO RATE	PRIORITY	GOVT CONTRACT	MATL	SHIPPING LOCATION		INVOICE
95434-1	38			1121	VANDERGRIFT	PA	665812

SOLD TO
TW METALS INC
PO BOX 644
EXTON
PA 19341

PRIME SEC.
DSO DSO
513

SHIP TO
SPECIALTY METALS PROCESSING
837 SEASONS ROAD
STOW
OH 44224

GRADE AND SPECIFICATIONS

CARRIER - P AND B TRANSPORTATION

ALLEGHENY STAINLESS STEEL TYPE 304 SHEET C R COILS ANNEALED 2B FIN 3 EDGE (AMS 5513J) (ASTM-A-666-03)
(ASME-SA-240-07) (ASTM-A-240-09C) (CP49-7.4.2-005 REV 4) (1/07/09 EXCEPT TO CP49-7.4.2-005)

ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES:
C, S BY COMBUSTION/INFRARED
N, O, H BY INERT FUSION/THERMAL CONDUCTIVITY
MN, P, SI, CR, NI, MO, CU, CB, CO, V BY WDXRF
B BY OES
AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES
PB, BI, AG BY GFAA

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:
MI = ATI-ALLEGHENY LUDLUM; 950 TENTH STREET; MIDLAND, PA 15059
TC = ATI-ALLEGHENY LUDLUM; 1300 PACIFIC AVENUE; NATRONA HEIGHTS, PA 15065

<<<<<<<< FOR ACCESS TO ONLINE CERTIFICATES OF TEST >>>>>>>>
<<<<<<<< REGISTER AT WWW.ALCEXTRA.COM >>>>>>>>

TW METALS
TEST REPORTS
JUN 20 2010
ACCEPTED BY

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05/24/10 09:09:56

CONSIGNEE: Please Note—This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-6577. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information

WARNING
Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-6577. Attention: les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgement.

Tracy McFarland
Director, Corporate Quality Assurance